

CITY OF COLUMBIA, MISSOURI

PUBLIC WORKS DEPARTMENT

July 30, 2012

Mr. Dion Knipp
Transportation Planning Specialist, District 5
Missouri Department of Transportation
Post Office Box 718
Jefferson City, MO 65102-0718

Re: Public Interest Finding – Trail Lighting System
Federal Project # CPP-9999 (511) – Hominy Creek Trail

Dear Dion,

With reference to the above mentioned project, The City of Columbia requests approval of a finding of public interest to use the following lighting system components for the RCB lighting on this project:

- LED Light Fixture – Dialight LPK422C3DIF
- Motion Sensor – RAB Tuff Dome
- Highwater Sensor/Alarm – SJE Rhombus Signalmaster
- Electronic Riser – Midwest Electrical Products Riser
- Astronomic Electronic Timer Switch – Intermatic 7 – Day Time Switch

Since there are no known complete ^{typo} systems specifically designed for this use, this system has been created from the individual components based on the other RCB's system. As with the other lighting systems, the City will maintain this system and will realize reduced maintenance costs if the systems have interchangeable components. This will also reduce staff training time as the systems will function the same way. In addition, although these components come from one manufacturer, they are available from numerous suppliers, which will provide the necessary competition to protect the public interest.

In summary, past field performance has demonstrated that this lighting system is inexpensive, durable, and easy maintain. It will not differ from existing City inventories, nor will it necessitate additional training of personnel, which will reduce maintenance costs. A copy of the specifications and a quote are attached.

If you have any questions feel free to contact me at 573.817-5048.

Sincerely,

Tyler Wallace
GetAbout Columbia

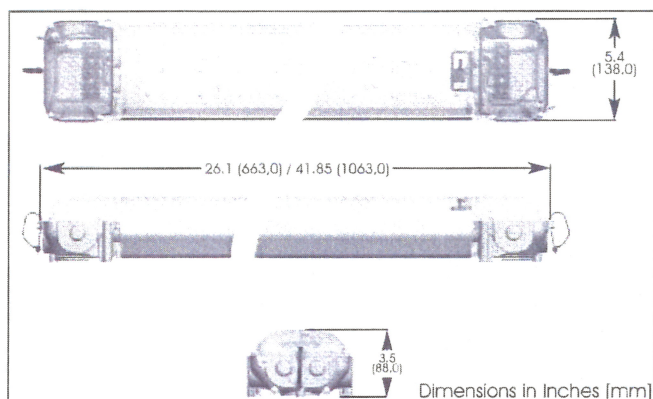
I certify that in accordance with the Requirements
of 23 CFR 635.411(a)(2), that the patented or
proprietary items are essential for synchronization
with existing facilities.

APPROVED:

Kathy Harvey, State Design Engineer



DuroSite® LPK LED Linear Fixture



Certifications & Ratings:

- ▷ Certified to UL1598
- ▷ CE compliant: EN 55015:2006 / EN 61547:2009 / EN 60598:2008
- ▷ CSA 22.2 # 250.0-04
- ▷ IP65/66 rated

Features & Benefits:

- ▷ >70% lumen maintenance after 60,000 operating hours
- ▷ Utilizes the latest >100 lumens per LED technology for cool white
- ▷ Can be wired in series
- ▷ Instant on/off
- ▷ Universal input voltage 90-277V 50/60Hz
- ▷ Mercury free, lead free
- ▷ Can be connected to remote photocells

Order Codes:

Part Number	Wattage	Initial Fixture Lumens	Lumens Per Watt
LPK22-2C3DIF	25W	1,850	74
LPK44-2C3DIF	50W	3,700	74

Application:

The Dialight DuroSite® LPK LED Linear Fixture is a rugged and durable solution for demanding industrial and utility lighting applications. Its sealed housing allows its use outdoors as well as indoors and with its automatic input voltage sensing it can be used in most locations around the world. The fixture is rated for 60,000 hours continuous operation, requiring no maintenance apart from routine inspection throughout its operational life.

All of Dialight's long life LED luminaires are designed to meet the most demanding specification criteria while offering maximum energy savings, reduced maintenance costs, and a superior quality of light.

Mechanical Information

Fixture Weight: 13.5lbs (6.13kg) 2' version
19.8lbs (9.00kg) 4' version

Electrical specifications

Operating Voltage: 90-277Vac 50/60Hz

Wattage: 25W 2' version
50W 4' version

Operating Temp: -40°F to +131°F (-40°C to +55°C)

Noise Requirements/ EMC: FCC Title 47, Subpart B, Section 15, class B device. EN55015:2006

RF Immunity: 10V/m, 80MHz-1GHz

Harmonics: EN 61000-3-2: 2006

THD: <15% @ 120VAC
<20% @ 277VAC

Surge Protection: EN 61000-4-5
1 kV line to line
2 kV line to ground

Power Factor: > 0.9

Material

Body: Anodized alum. 6061

Lens: Diffused polycarbonate
Clear versions available (MOQ applies, consult factory)

Accessories (hardware): Stainless steel

Photometric Information

CRI: > 70

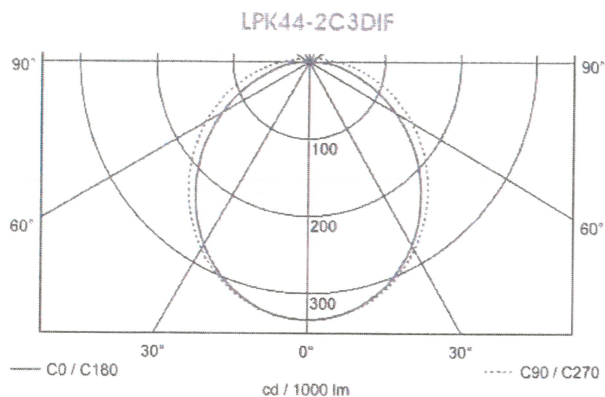
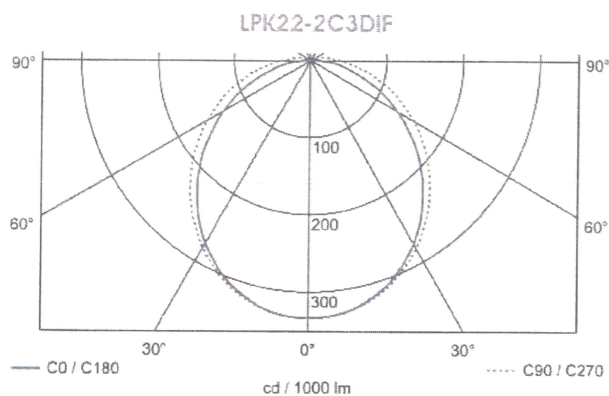
CCT: 6350K (cool white)

All values typical unless otherwise stated

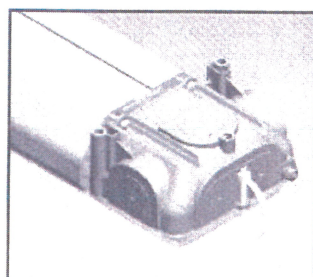


DuroSite® LPK LED Linear Fixture

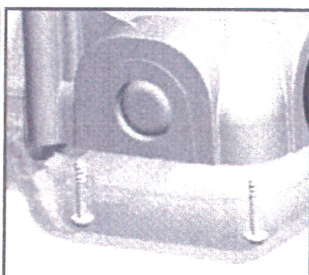
Polar Diagrams



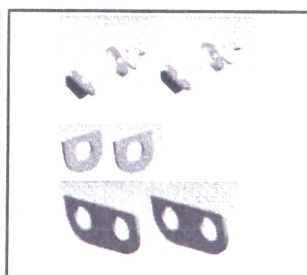
Mounting Detail



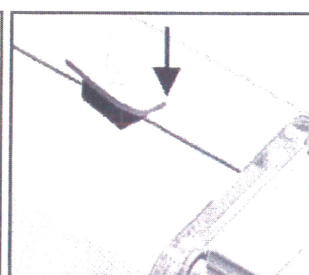
End Assembly
Available Entry Points



End Assembly
Drill-Out Location

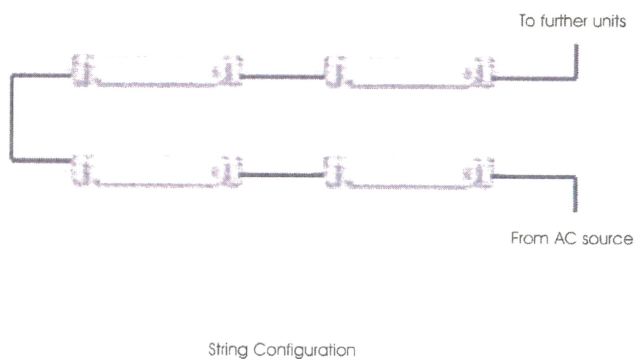
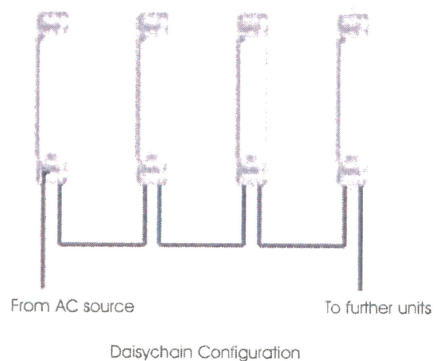


Mounting Screws



Slot-Bolt Assembly
Required for Tracks/Raceways wiring

Wiring Detail



Dialight reserves the right to make changes at any time in order to supply the best product possible.

The most current version of this document will always be available at:

www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDEXLUMLPKX001.pdf

